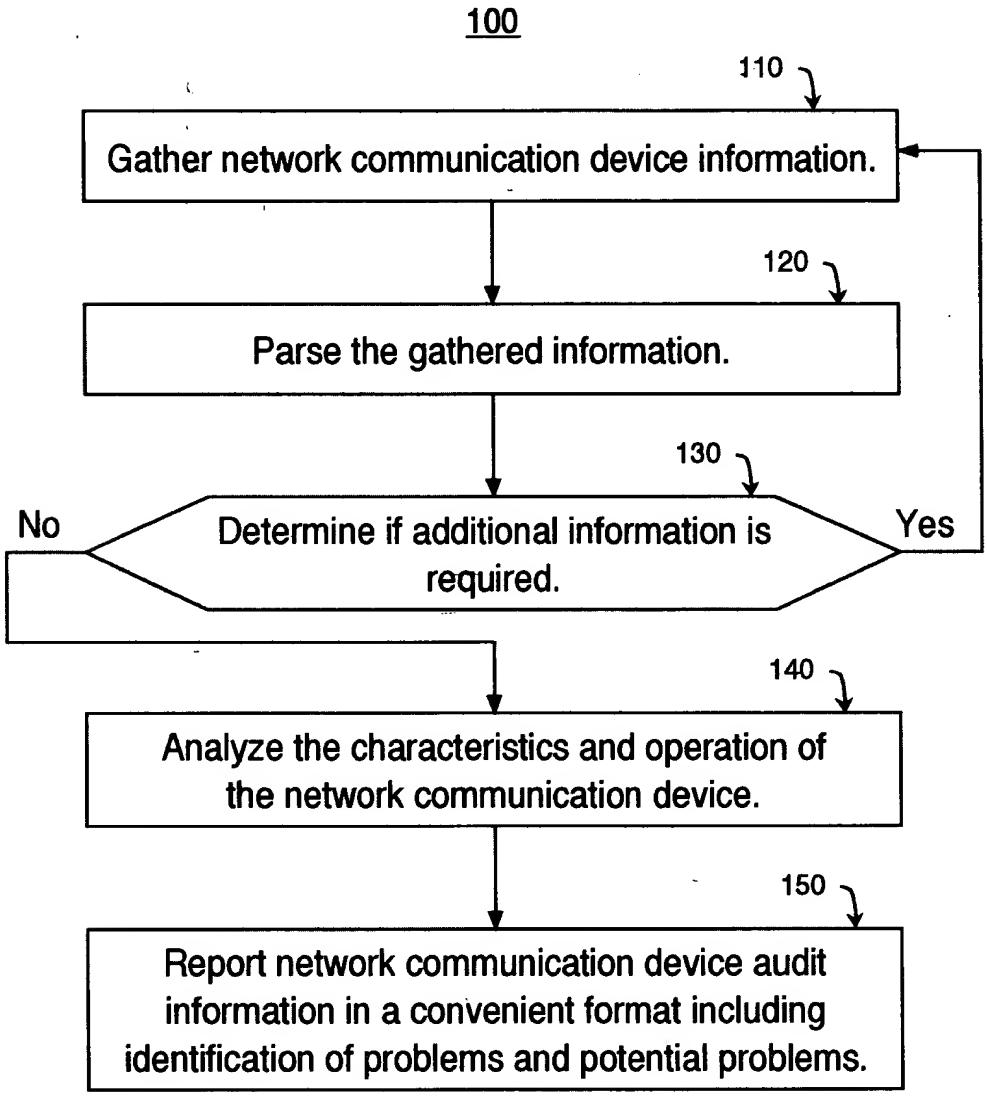


FIG. 1

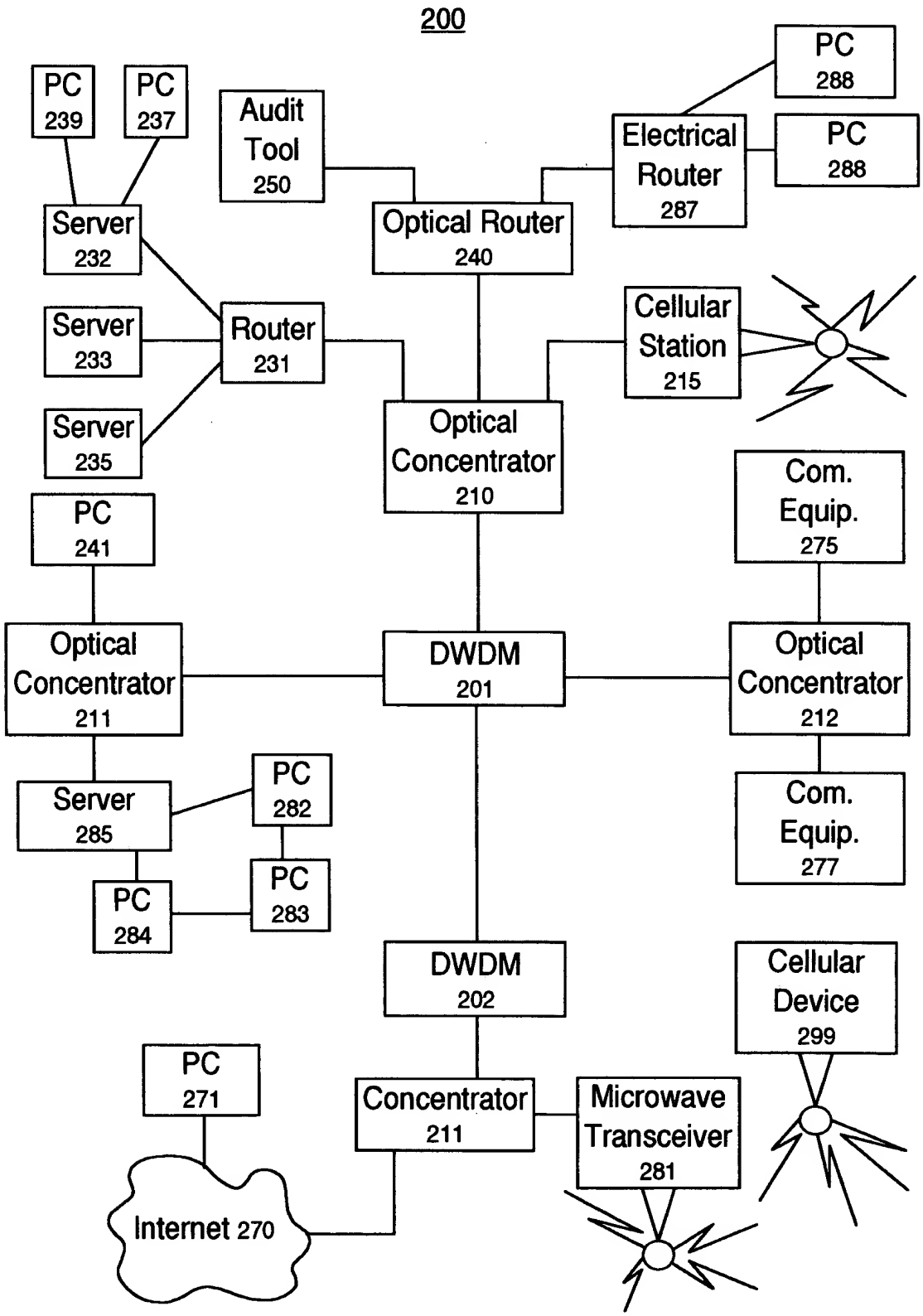

200
PC 239
PC 237
Audit Tool 250
PC 288
Electrical Router 287
PC 288
Server 232
Optical Router 240
Server 233
Router 231
Cellular Station 215
Server 235
Optical Concentrator 210
PC 241
Com. Equip. 275
Optical Concentrator 211
DWDM 201
Optical Concentrator 212
Server 285
PC 282
Com. Equip. 277
PC 284
PC 283
DWDM 202
Cellular Device 299
PC 271
Concentrator 211
Microwave Transceiver 281
Internet 270

FIG. 2A

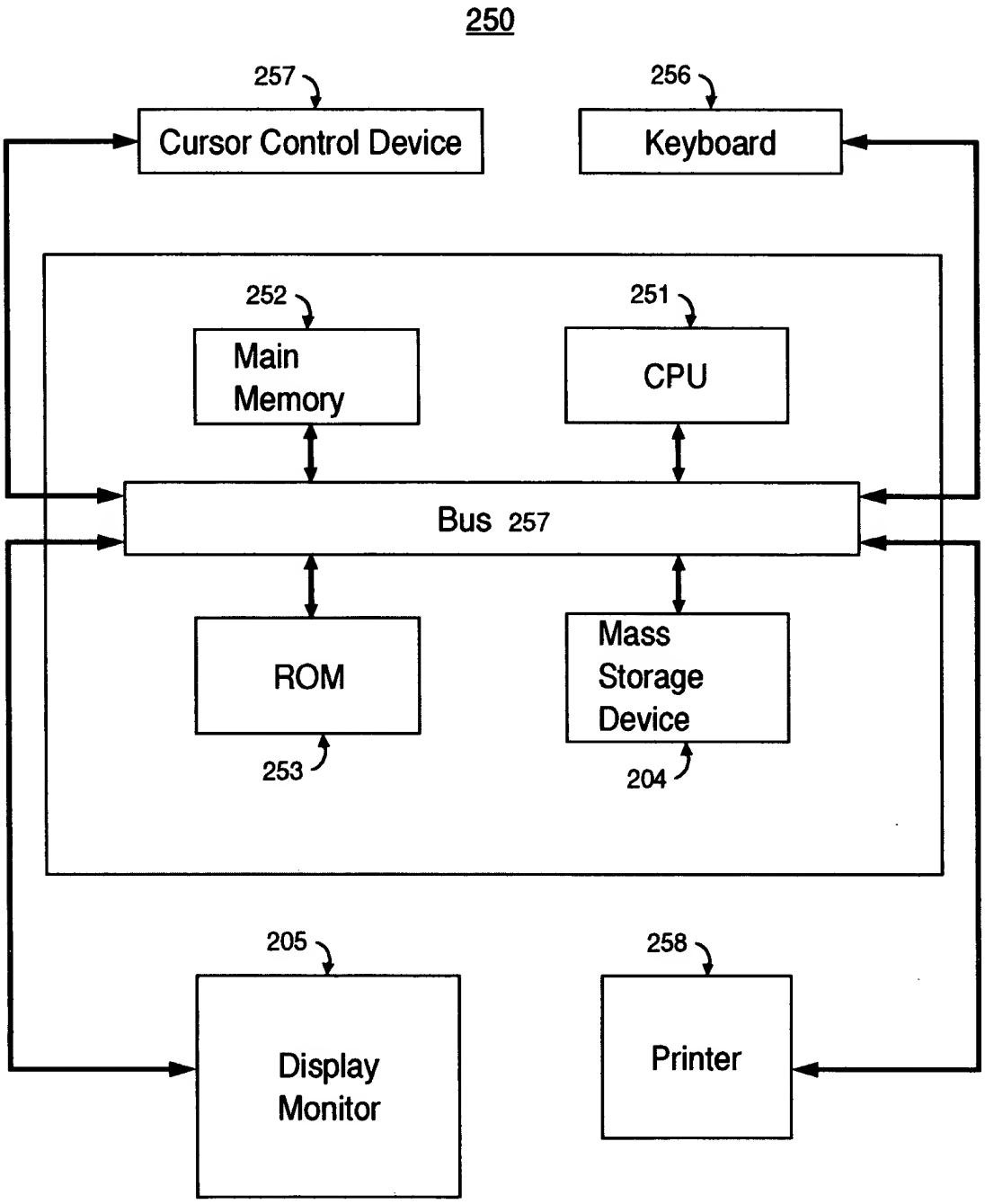

250
257
Cursor Control Device
256
Keyboard
252
Main Memory
251
CPU
Bus 257
ROM
253
Mass Storage Device
204
205
Display Monitor
258
Printer

FIG. 2B

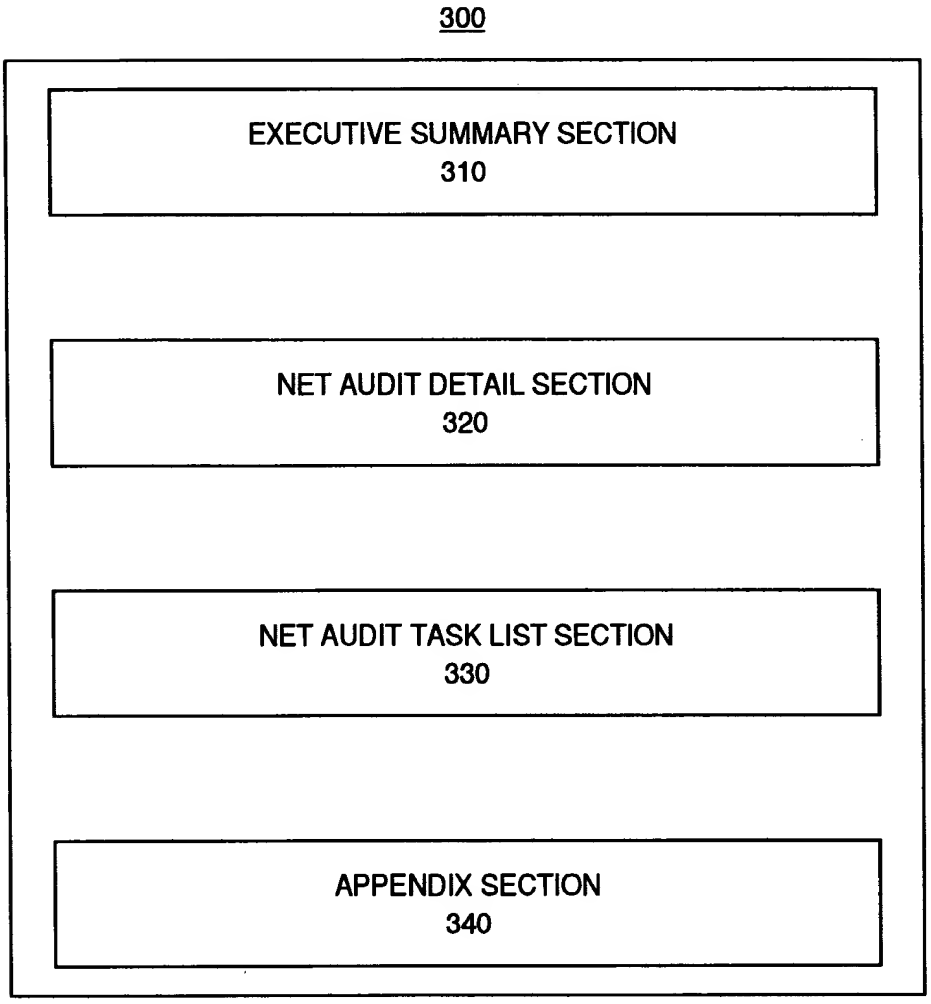

300
EXECUTIVE SUMMARY SECTION
310
NET AUDIT DETAIL SECTION
320
NET AUDIT TASK LIST SECTION
330
APPENDIX SECTION
340

FIG. 3

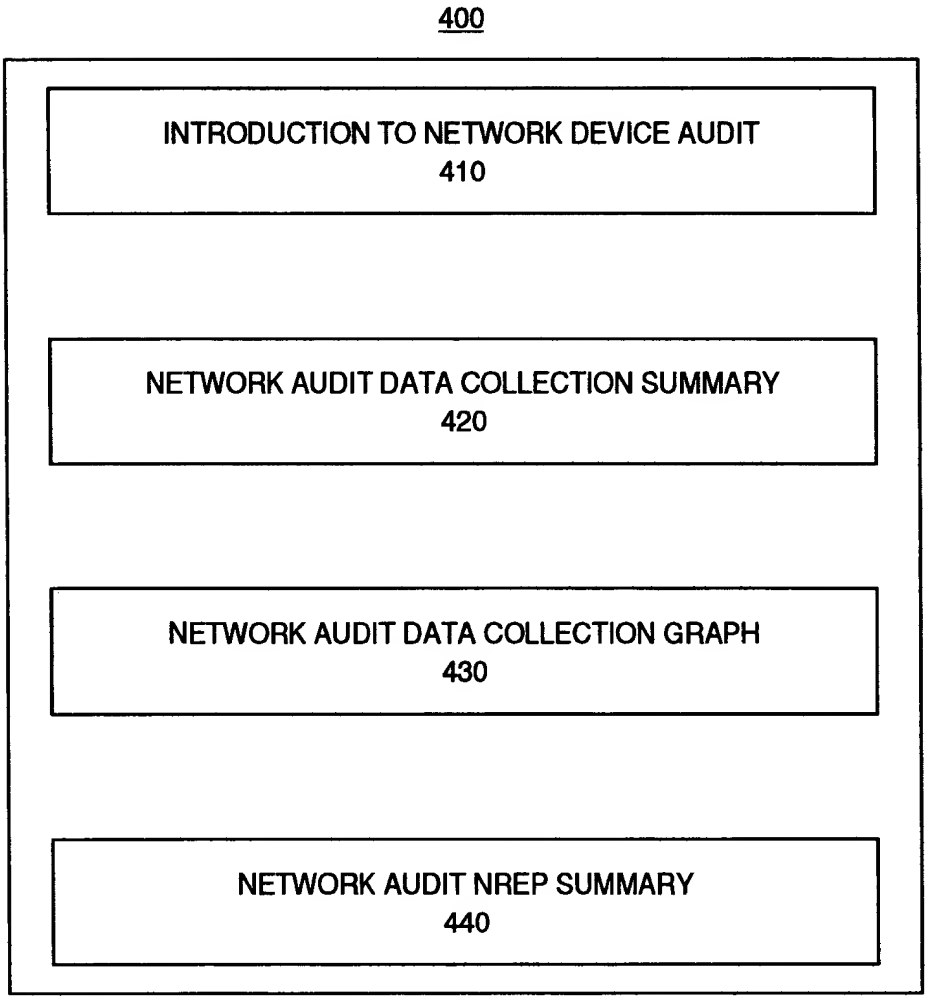

400
INTRODUCTION TO NETWORK DEVICE AUDIT
410
NETWORK AUDIT DATA COLLECTION SUMMARY
420
NETWORK AUDIT DATA COLLECTION GRAPH
430
NETWORK AUDIT NREP SUMMARY
440

FIG. 4A

INTRODUCTION TO: Network Optical Concentrator 15454 Audit.

Optional 15454 network audit provides a convenient identification of the network optical concentrators included in a network and assessment of those network optical concentrators. Network optical concentrators _____. This report assesses the health of these devices according to four network management categories (configuration management, fault management, performance management and capacity management) in a convenient format.

FIG. 4B

NETWORK AUDIT DATA COLLECTION SUMMARY TABLE

Collection Period	
Collection Start Time	
Collection Stop Time	
Unreachable Nodes	

FIG. 4C

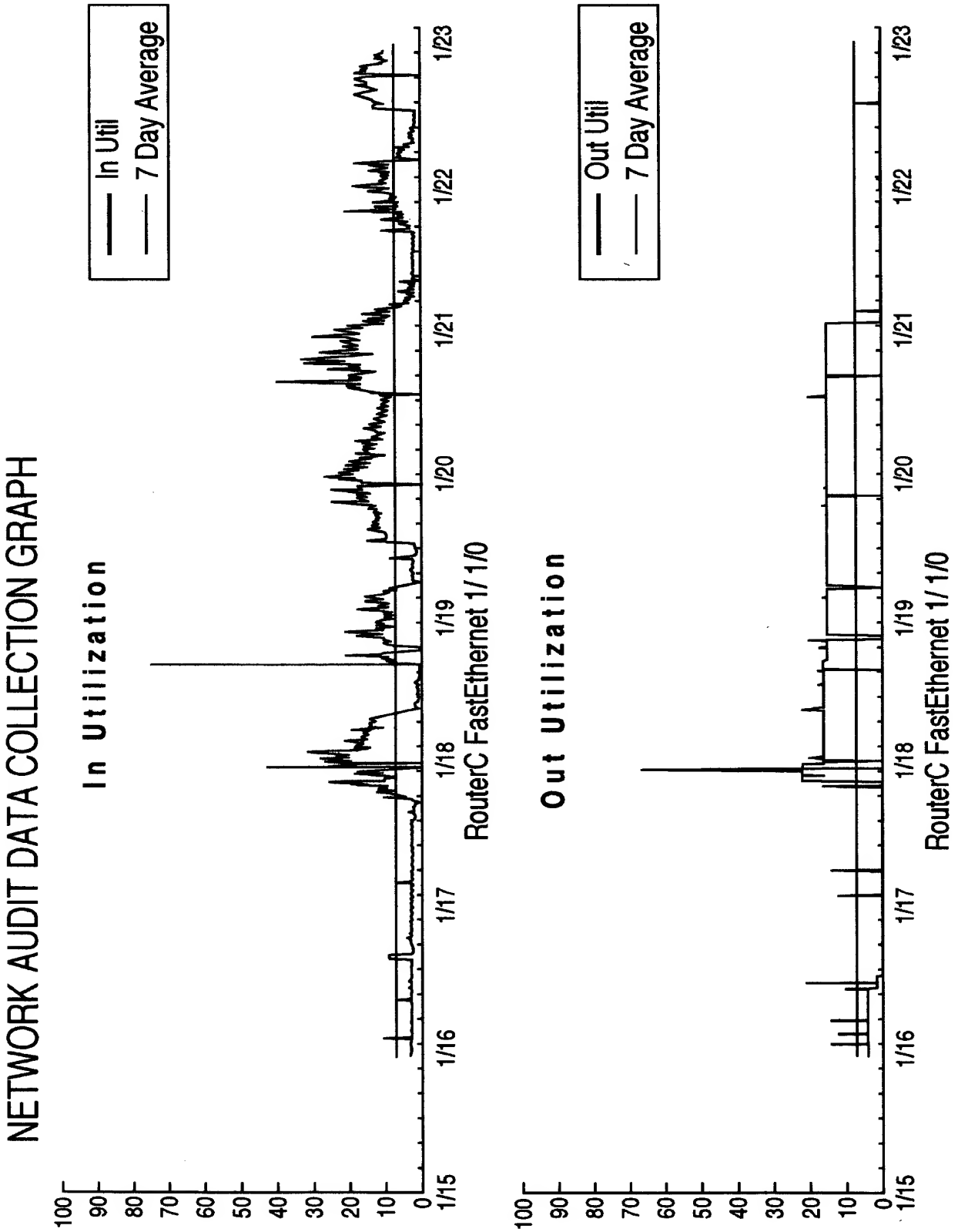

NETWORK AUDIT DATA COLLECTION GRAPH
In Utilization
In Util
7 Day Average
100
90
80
70
60
50
40
30
20
10
0
1/15
1/16
1/17
1/18
1/19
1/20
1/21
1/22
1/23
RouterC FastEthernet 1/ 1/0
Out Utilization
Out Util
7 Day Average
RouterC FastEthernet 1/ 1/0

FIG. 4D

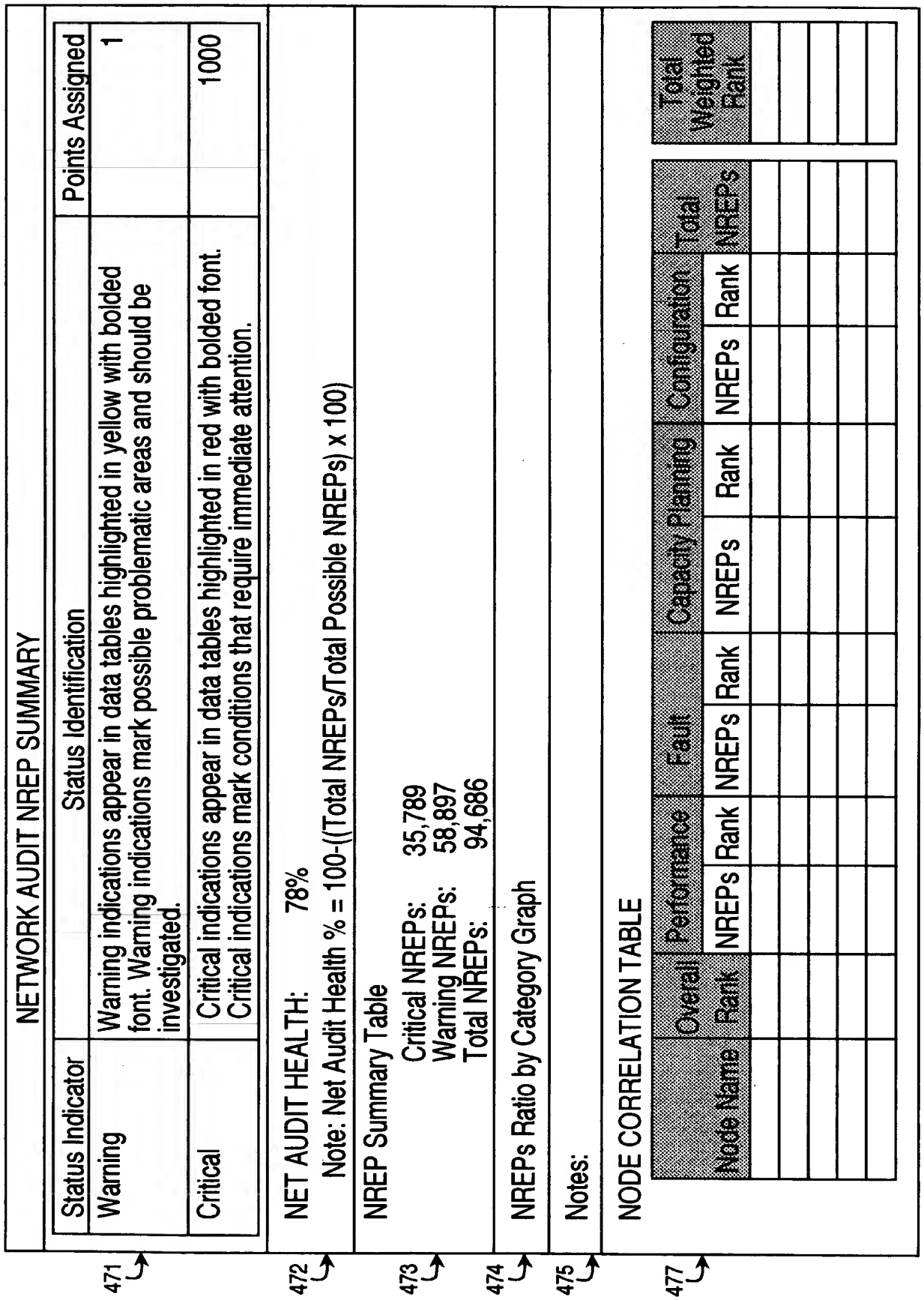

NETWORK AUDIT NREP SUMMARY
Status Indicator
Status Identification
Points Assigned
Warning
Warning indications appear in data tables highlighted in yellow with bolded font. Warning indications mark possible problematic areas and should be investigated.
1
Critical
Critical indications appear in data tables highlighted in red with bolded font. Critical indications mark conditions that require immediate attention.
1000
NET AUDIT HEALTH: 78%
Note: Net Audit Health % = 100-((Total NREPs/Total Possible NREPs) x 100)
NREP Summary Table
Critical NREPs: 35,789
Warning NREPs: 58,897
Total NREPs: 94,686
NREPs Ratio by Category Graph
Notes:
NODE CORRELATION TABLE
Node Name
Overall
Rank
Performance
NREPs
Rank
Fault
NREPs
Rank
Capacity Planning
NREPs
Rank
Configuration
NREPs
Rank
Total
NREPs
Total Weighted Rank
471
472
473
474
475
477

Fig. 4E

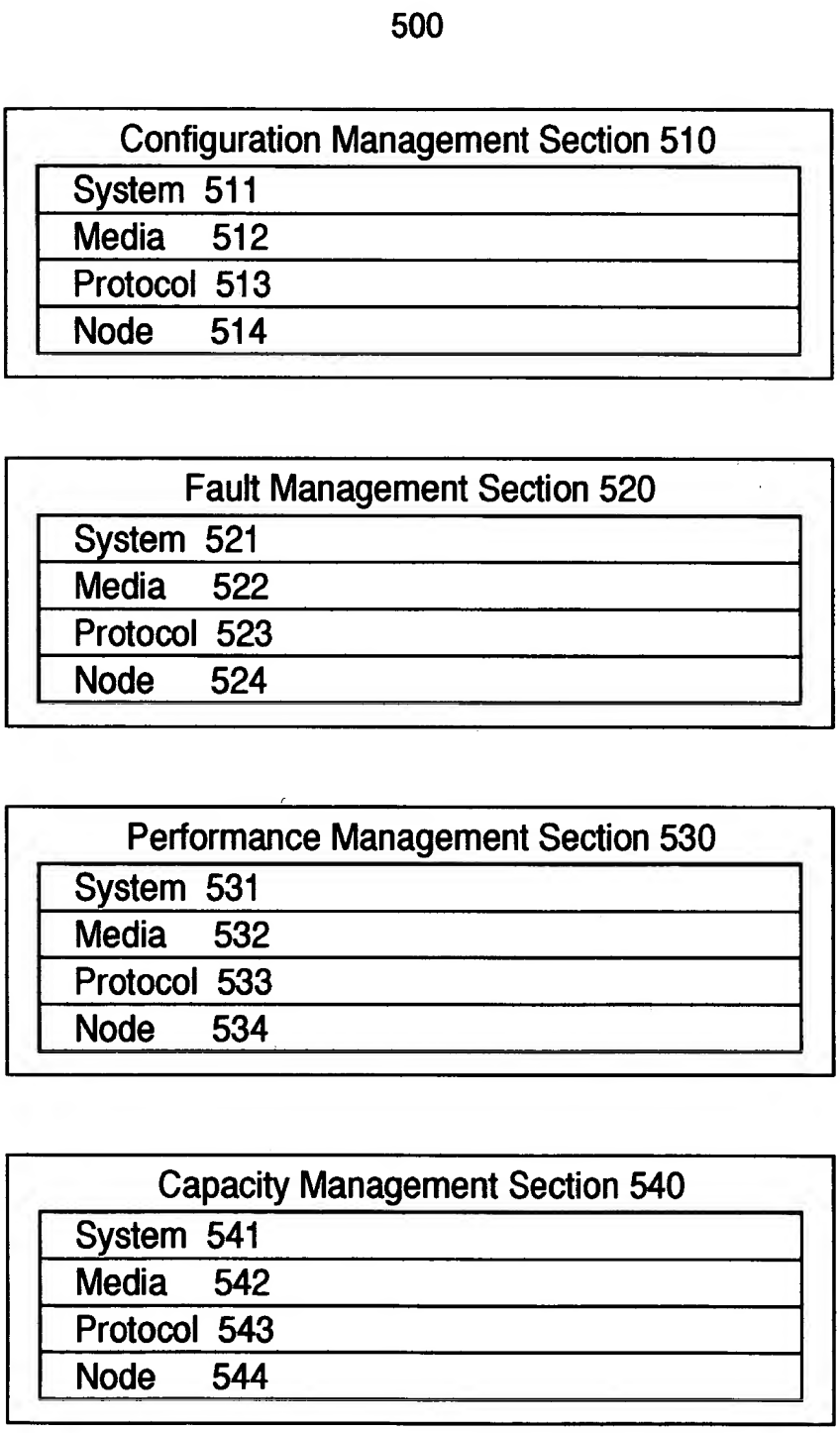

500
Configuration Management Section 510
System 511
Media 512
Protocol 513
Node 514
Fault Management Section 520
System 521
Media 522
Protocol 523
Node 524
Performance Management Section 530
System 531
Media 532
Protocol 533
Node 534
Capacity Management Section 540
System 541
Media 542
Protocol 543
Node 544

FIG. 5

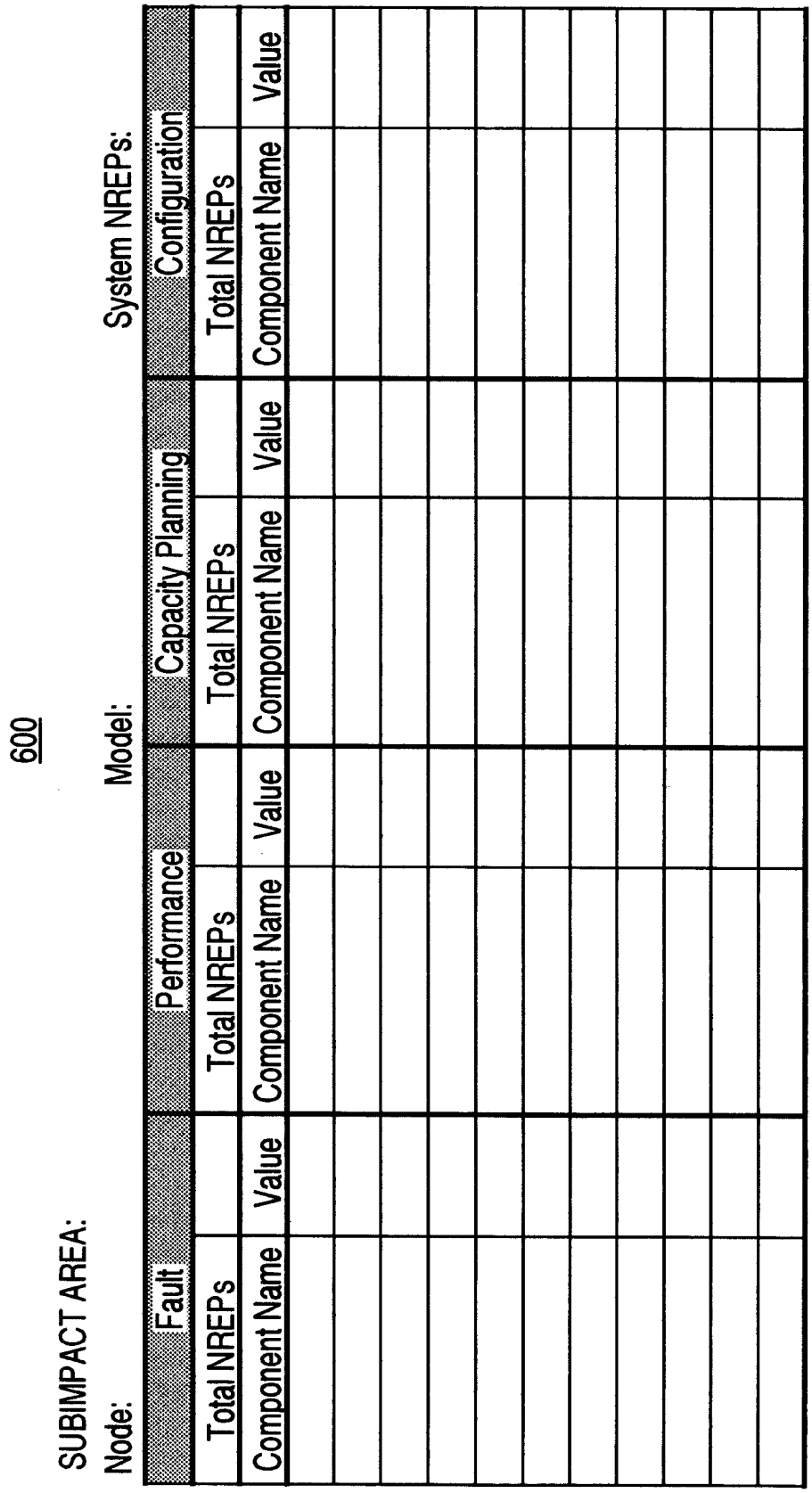

600
SUBIMPACT AREA:
Node:
Model:
System NREPs:
Fault
Performance
Capacity Planning
Configuration
Total NREPs
Component Name
Value
Total NREPs
Component Name
Value
Total NREPs
Component Name
Value
Total NREPs
Component Name
Value

FIG. 6

Network Element Table 710

Network Element Name	IP Address	Node ID	STM Mode	Timing Mode

FIG. 7A

Board Table 720

Network Element Name	Board Name	Slot Name	Part Number	Serial Number	Hardware Version	Firmware Version	Board Status

FIG. 7B

BITS and Synchronization Reference Table 730

Network Element Name	BITS-1 Reference			BITS-2 Reference			Synchronization		
	Line code	Framing	Line code	Framing	Primary	Second	Third		

FIG. 7C

Network Element Protection Table 740

Network Element Name	Working Slot Number	Protection Slot Number	Protection Group	Protection Name	Revertive Mode	Revertive Time (mins)

FIG. 7D

Optical Facilities Protection Table 750

Network Element Name	Working Facility	Protection Facility	Protection Name	Revertive Mode	Revertive Time (mins)	Bi-directional Switch Mode

FIG. 7E

Cross Connect Table 760

Network Element Name	From STS Cross Connect	To STS Cross Connect	Cross Connect Type

FIG. 7F

DSI Service Parameters Table

770

Network Element Name	Slot Number	Port Number	Line Type	Line Code	Circuit Line Buildout	Primary Service State

FIG. 7G

DS3 Service Parameters Table

780

Network Element Name	Slot Number	Port Number	Line Type	Line Code	Circuit Line Buildout	Primary Service State

FIG. 7H

Optical Service Parameters Table

790

Network Element Name	Facility	Slot Number	Port Number	Section DCC Enabled	Timing Source To TCC/TMG Card	Revertive Span Switch Wait To Restore Time	STS Facility For Pointer Justification	Bit Error Ratio For Signal Fail	Bit Error Ratio For Signal Degrade	Mode	Wave length	Protection Group Role	Protection Group Status

FIG. 7I

TITLE: "OPTICAL TRANSPORT CONCENTRATOR AUDIT SYSTEM AND METHOD"
Inventor(s): Joe DEPAOLANTONIO
USSN: 09/828,022 Attorney Docket #: CSCO-3809

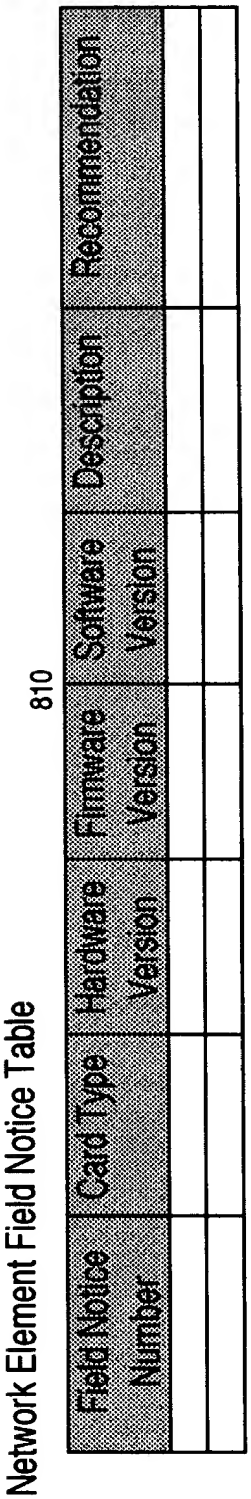

Network Element Field Notice Table
810
Field Notice Number
Card Type
Hardware Version
Firmware Version
Software Version
Description
Recommendation

FIG. 8A

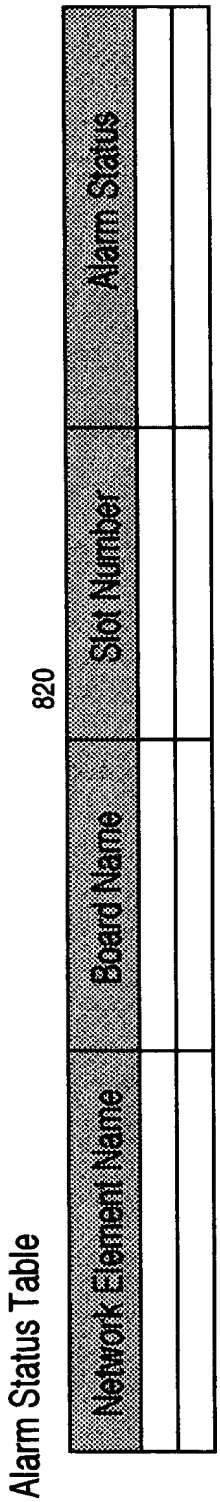

Alarm Status Table
820
Network Element Name
Board Name
Slot Number
Alarm Status

FIG. 8B

Electrical Performance Table Near End 910

Network Element Name	Facility	Slot Number	Port Number	Coding Violations	Errored Seconds	Severely Errored Seconds	Severely Errored Frame (AIS)	Unavailable Seconds

FIG. 9A

Optical Performance Table Near End 920

Network Element Name	Facility	Slot Number	Port Number	Coding Violations	Errored Seconds	Severely Errored Seconds	Unavailable Seconds

FIG. 9B

Optical Performance Table Far End 930

Network Element Name	Facility	Slot Number	Port Number	Coding Violations	Errored Seconds	Severely Errored Seconds	Unavailable Seconds

FIG. 9C

Network Element Capacity Table 1010

Network Element Name	Board Name	Slot Number Used	Available Slots

FIG. 10A

Net Audit Task List Table 1020

Node	Field Name	Frequency	Appendix Reference	Engineer / Audit Comments and Net Advice

FIG. 10B

Appendix D - Device Unreachable Table

Host name or IP Address	Iteration 1: Reason for Failure	Iteration 2: Reason for Failure
Router I	PASS	router
Router I	PASS	C2900

The Failure Type is one of the following:

Duplicated_Fail
Device in the list more than once and data was unsuccessfully collected.

Duplicated _Pass
Device in the list more than once and data was successfully collected.

FAIL
Device either had unknown IDs or passwords, or could not be reached due to network problems.

Not Used
Device was in the initial audit request but was not in the device list at the time of the collection

Switch
Device is a 29xx switch, not a router. NATkit will be corrected in the future to properly classify the 29xx switches, so that they do not appear in the Router Stability Net Audit.

Incomplete Command Set
During the data collection, one or more commands were not retrieved from the router, most likely because the connection between the NATkit and the router failed.

Fig. 10C

TITLE: "OPTICAL TRANSPORT CONCENTRATOR AUDIT SYSTEM AND METHOD"
Inventor(s): Joe DEPAOLANTONIO
USSN: 09/828,022 Attorney Docket #: CSCO-3809

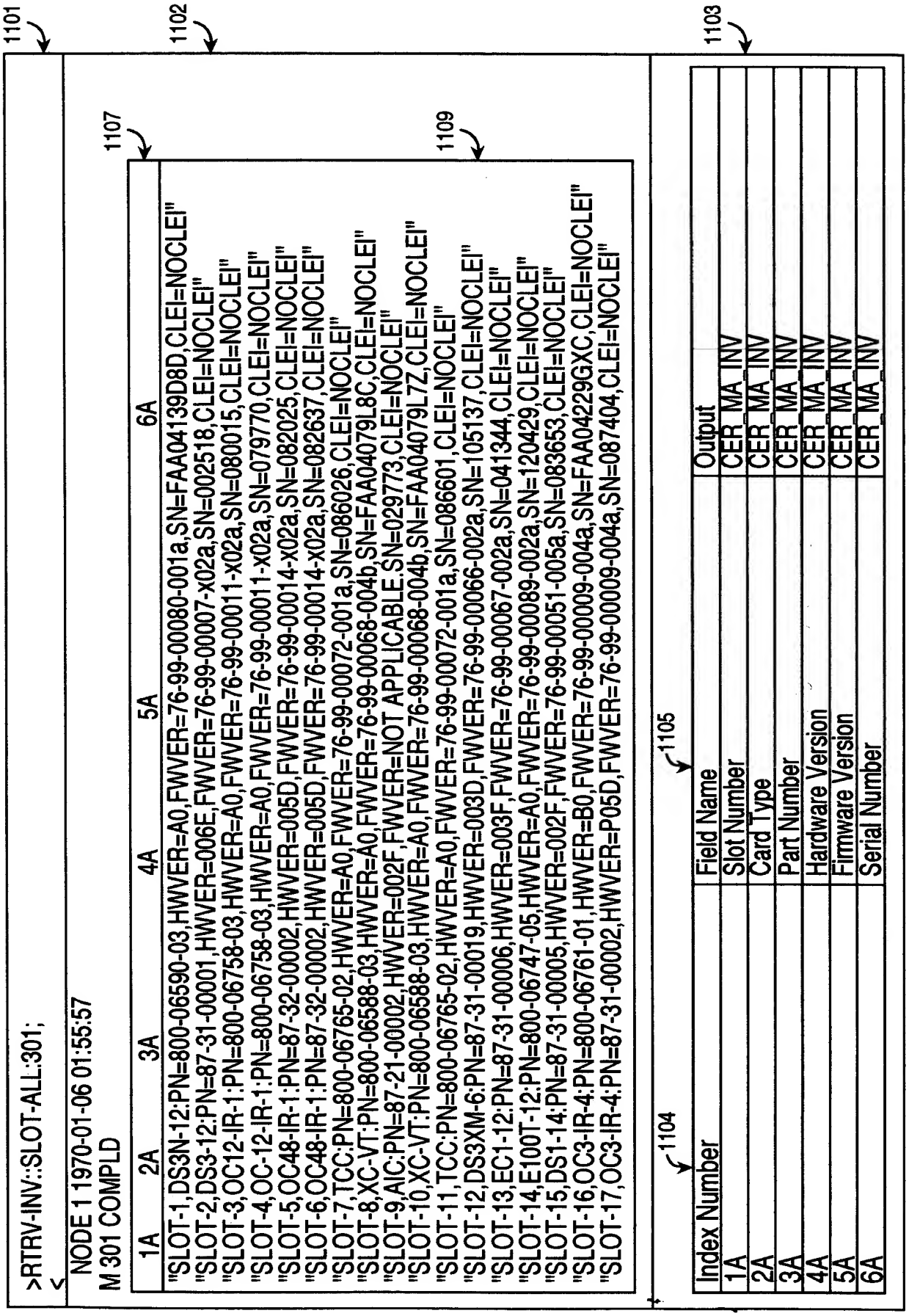

1101
1102
1103
1104
1105
1107
1109
>RTRV-INV::SLOT-ALL:301;
<
NODE 1 1970-01-06 01:55:57
M 301 COMPLD
1A 2A 3A 4A 5A 6A
"SLOT-1,DS3N-12:PN=800-06590-03,HWVER=A0,FWVER=76-99-00080-001a,SN=FAA04139D8D,CLEI=NOCLEI"
"SLOT-2,DS3-12:PN=87-31-00001,HWVER=006E,FWVER=76-99-00007-x02a,SN=002518,CLEI=NOCLEI"
"SLOT-3,OC12-IR-1:PN=800-06758-03,HWVER=A0,FWVER=76-99-00011-x02a,SN=080015,CLEI=NOCLEI"
"SLOT-4,OC-12-IR-1:PN=800-06758-03,HWVER=A0,FWVER=76-99-00011-x02a,SN=079770,CLEI=NOCLEI"
"SLOT-5,OC48-IR-1:PN=87-32-00002,HWVER=005D,FWVER=76-99-00014-x02a,SN=082025,CLEI=NOCLEI"
"SLOT-6,OC48-IR-1:PN=87-32-00002,HWVER=005D,FWVER=76-99-00014-x02a,SN=082637,CLEI=NOCLEI"
"SLOT-7,TCC:PN=800-06765-02,HWVER=A0,FWVER=76-99-00072-001a,SN=086026,CLEI=NOCLEI"
"SLOT-8,XC-VT:PN=800-06588-03,HWVER=A0,FWVER=76-99-00068-004b,SN=FAA04079L8C,CLEI=NOCLEI"
"SLOT-9,AIC:PN=87-21-00002,HWVER=002F,FWVER=NOT APPLICABLE,SN=029773,CLEI=NOCLEI"
"SLOT-10,XC-VT:PN=800-06588-03,HWVER=A0,FWVER=76-99-00068-004b,SN=FAA04079L7Z,CLEI=NOCLEI"
"SLOT-11,TCC:PN=800-06765-02,HWVER=A0,FWVER=76-99-00072-001a,SN=086601,CLEI=NOCLEI"
"SLOT-12,DS3XM-6:PN=87-31-00019,HWVER=003D,FWVER=76-99-00066-002a,SN=105137,CLEI=NOCLEI"
"SLOT-13,EC1-12:PN=87-31-00006,HWVER=003F,FWVER=76-99-00067-002a,SN=041344,CLEI=NOCLEI"
"SLOT-14,E100T-12:PN=800-06747-05,HWVER=A0,FWVER=76-99-00089-002a,SN=120429,CLEI=NOCLEI"
"SLOT-15,DS1-14:PN=87-31-00005,HWVER=002F,FWVER=76-99-00051-005a,SN=083653,CLEI=NOCLEI"
"SLOT-16,OC3-IR-4:PN=800-06761-01,HWVER=B0,FWVER=76-99-00009-004a,SN=FAA04229GXC,CLEI=NOCLEI"
"SLOT-17,OC3-IR-4:PN=87-31-00002,HWVER=P05D,FWVER=76-99-00009-004a,SN=087404,CLEI=NOCLEI"
Index Number | Field Name | Output
1A | Slot Number | CER_MA_INV
2A | Card Type | CER_MA_INV
3A | Part Number | CER_MA_INV
4A | Hardware Version | CER_MA_INV
5A | Firmware Version | CER_MA_INV
6A | Serial Number | CER_MA_INV

FIG. 11A

```
>RTRV-PM-OC48=FAC-5-ALL:123::.....15MIN:
<

  NODE 3 1970-01-02 18:04:02
M 123 COMPLD
     1H          2H
  "FAC-5-1:SEFS,6,COMPL,NEND,15MIN,BTH.."
                3H
  "FAC-5-1:CVL,0,COMP,NEND,15MIN,BTH.."
                4H
  "FAC-5-1:ESL,6,COMPL,NEND,15MIN,BTH.."
                5H
  "FAC-5-1:SESL,6,COMPL,NEND,15MIN,BTH.."
                6H
  "FAC-5-1:UASL,0,COMPL,NEND,15MIN,BTH.."
                7H
  "FAC-5-1:FCL,1,COMPL,NEND,15MIN,BTH.."
                8H
  "FAC-5-1:NPJC-PDET,0,COMPL,NEND,15MIN,RCV.."
                9H
  "FAC-5-1:PPJC-PDET,0,COMPL,NEND,15MIN,RCV.."
                10H
  "FAC-5-1:NPJC-PGEN,0,COMPL,NEND,15MIN,TRUT.."
                11H
  "FAC-5-1:PPJC-PGEN,0,COMPL,NEND,15MIN,TRUT.."
                12H
  "FAC-5-1:CVL,0,COMPL,FEND,15MIN,BTH.."
                13H
  "FAC-5-1:ESL,0,COMPL,FEND,15MIN,BTH.."
                14H
  "FAC-5-1:SESL,0,COMPL,FEND,15MIN,BTH.."
                15H
  "FAC-5-1:JASL,0,COMPL,FEND,15MIN,BTH.."
                16H
  "FAC-5-1:FCL,0,COMPL,FEND,15MIN,BTH.."
```

Index Number	Field Name	Output
1H	Factory	CER_MA_PM_OP
2H	SEFS_NEND	CER_MA_PM_OP
3H	CVL_NEND	CER_MA_PM_OP
4H	ESL_NEND	CER_MA_PM_OP
5H	SESL_NEND	CER_MA_PM_OP
6H	UASL_NEND	CER_MA_PM_OP
7H	FCL_NEND	CER_MA_PM_OP
8H	NPJC_RCV	CER_MA_PM_OP
9H	PPJC_RCV	CER_MA_PM_OP
10H	NPJC_TRMT	CER_MA_PM_OP
11H	PPJC_TRMT	CER_MA_PM_OP
12H	CVL_FEND	CER_MA_PM_OP
13H	ESL_FEND	CER_MA_PM_OP
14H	SESL_FEND	CER_MA_PM_OP
15H	UASL_FEND	CER_MA_PM_OP
16H	FCL_FEND	CER_MA_PM_OP

1111
1112
1113

FIG. 11B

Optical Performance Table - Far End

Network Element Name	Facility	Slot Number	Port Number	Coding Violations	Errored Seconds	Severely Errored Seconds	Unavailable Seconds
	CER_MA_INV Index 2A	CER_MA_PM_OP Index 1H	CER_MA_PM_OP Index 1H	CER_MA_PM_OP Index 12H	CER_MA_PM_OP Index 13H	CER_MA_PM_OP Index 14H	CER_MA_PM_OP Index 15H
NODE 1	OC-48	5	1	1	1	1	1
				OC3 interfaces If the number exceeds 1312 for a 15 min. interval or exceeds 13,120 for a 1 day interval, flag RED. **OC12 interfaces** If the number exceeds 5315 for a 15 min. interval or exceeds 53,250 for a 1 day interval, flag RED. **OC48 interfaces** 21,260 for a 15 min. interval or exceeds 212,600 for a 1 day interval, flag RED.	If the number exceeds 87 for a 15 min. interval or exceeds 864 for a 1 day interval, flag RED	If the number exceeds 1 for a 15 min. interval or exceeds 4 for a 1 day interval, flag RED	If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1 day interval, flag RED

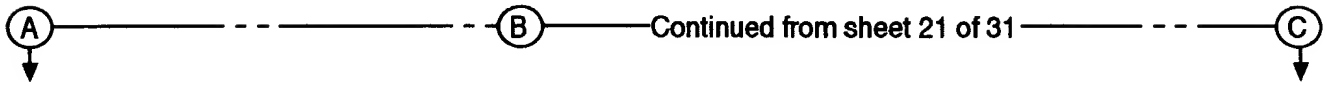
1131
1132
1133

FIG. 11C

COMMAND	RETRIEVED INFORMATION
RTRV-INV::SLOT-xxx:yyy;	Slot number, Card Type, Part Number, Hardware Version, Firmware Version, and Serial Number.
RTRV-NE:::;	Internet Protocol (IP) Address, Synchronous Transfer Mode, Node Identification (ID), and Timing Mode.
RTRV-EQPT::SLOT-xxx:yyy;	Slot Number, Card Type, and Card Status.
RTRV-BITS::BITS-NE:xxx:yyy;	BITS Reference Number, Line Coding, and Frame Format.
RTRV_SYNC::SYNC-NE:xxx:yyy;	Synchronization Sources such a First Primary Synchronization Source, Second Synchronization Source, and a Third Synchronization Source.
RTRV_ALM-ALL:::yyy;	Alarms and associated Slot Numbers.
RTRV-TOD:::yyy;	Time of Day
RTRV-PM-OCvv:: FAC-xxx-ALL:yyy::,,,,zzz,,;	Facility and Near End and Far End performance such as transmission and reception Severely Errored Framing Second (SEFS), Line Coding Violation (CVL), Line Errored Second (ESL), Line Severely Errored Second (SESL), Path Unavailable (UASP), Path Coding Violation (CVP), Path Second Errored Second (ESP), and Path Severely Errored Second (SESP). Transmission and reception NPJC and PPJC information.
RTRV-PM-TI: FAC-xxx-ALL:yyy::,,,,zzz,,:	Facility and Near End performance such as transmission and reception Severely Errored Framing Second (SEFS), Line Coding Violation (CVL), Line Errored Second (ESL), Line Severely Errored Second (SESL), Line Unavailable Second (UASL) and Line Failure Count (FCL). Transmission and reception NPJC and PPJC information.
RTRV-OCvv:: FAC-xxx-ALL:yyy::,,,,zzz,,;	Facility, Section DCC Enabled, Timing Source for TCC/TMG Card, Span Switch Wait to Restore Time, STA Monitored Facility for Pointer Justifications, Signal Failure Bit Error Ratio, Signal Degrade Bit Error Ratio Threshold, Facility state, Protection Group Role, and Protection Croup Status.
RTRV-T3:CERENT:FAC-xxx-y:zzz::::; or RTRV-T1:TID:FAC-vv-uu:yyyy;	Facility, Line Type, Line Coding, Line Buildout, and Primary Service State.
RTRV-FFP-EQPT::SLOT-vv:yyy;	Working Slot Number, Protection Slot Number, Protection Group, Protection name, Revertive Mode, and Revertive Time.

A — B — Continued on sheet 22 of 31 — C

FIG. 11D



RTRV-FFP-OCvv::FAC-xx-yy:zz;	Retrieves Information on working Slot Number, Protection Slot Number, Protection Group, Protection name, Revertive Mode, Revertive Time and Bidirectional Switch Mode.
RTRV-CRS-STS3C::STS-vv-xx-:yyyy;	Retrieves Information on From CRS, To CRS and CRS type.

FIG. 11D (Continued)

Net Rule	Heading	Description
OC3 Interfaces If the number exceeds 1312 for a 15 min. interval or exceeds 13,120 for a 1-day interval OC12 Interfaces If the number exceeds 5315 for a 15 min. interval or exceeds 53,250 for a 1-day interval OC48 Interfaces If the number exceeds 21,260 for a 15 min. interval or exceeds 212,600 for a 1-day interval	Optical Performance Table Near and Far end coding Violations	For OC3 Interfaces If the number exceeds 1312 for a 15 min. interval or exceeds 13,120 for a 1-day interval are bolded red For OC12 Interfaces If the number exceeds 5315 for a 15 min. interval or exceeds 53,250 for a 1-day interval are bolded red For OC48 Interfaces If the number exceeds 21,260 for a 15 min. interval or exceeds 212,600 for a 1-day interval are bolded red
DS1 Interfaces If the number exceeds 13,340 for a 15 min. interval or exceeds 133,400 for a 1-day interval DS-3 Interfaces If the number exceeds 387 for a 15 min. interval or exceeds 3865 for a 1-day interval EC-1 Interfaces If the number exceeds 1312 for a 15 min. interval or exceeds 13,120 for a 1-day interval DS3XM-6 Interfaces If the number exceeds 387 for a 15 min. interval or exceeds 3865 for a 1-day interval	Electrical Performance Near End Table Coding Violations	For DS1 Interfaces If the number exceeds 13,340 for a 15 min. interval or exceeds 133,400 for a 1-day interval are bolded red. For DS-3 Interfaces If the number exceeds 387 for a 15 min. interval or exceeds 3865 for a 1-day interval are bolded red. For EC-1 Interfaces If the number exceeds 1312 for a 15 min. interval or exceeds 13,120 for a 1-day interval are bolded red. For DS3XM-6 Interfaces If the number exceeds 387 for a 15 min. interval or exceeds 3865 for a 1-day interval are bolded red.

D E F Continued on sheet 24 of 31 G

Fig. 11E

D — E — F — Continued from sheet 23 of 31 — G

If the number exceeds 87 for a 15 min. interval or exceeds 864 for a 1-day interval	Optical Performance Table Near and Far end Errored Seconds	If the number exceeds 87 for a 15 min. interval or exceeds 864 for a 1-day interval are bolded red
DS1 Interfaces If the number exceeds 65 for a 15 min. interval or exceeds 648 for a 1-day interval DS-3 Interfaces If the number exceeds 25 for a 15 min. interval or exceeds 250 for a 1-day interval EC-1 Interfaces If the number exceeds 87 for a 15 min. interval or exceeds 864 for a 1-day interval DS3XM-6 Interfaces If the number exceeds 25 for a 15 min. interval or exceeds 250 for a 1-day interval	Electrical Performance Near End Table Errored Seconds	For DS1 Interfaces If the number exceeds 65 for a 15 min. interval or exceeds 648 for a 1-day interval are bolded red DS-3 Interfaces. For DS-3 Interfaces If the number exceeds 25 for a 15 min. interval or exceeds 250 for a 1-day interval are bolded red. For EC-1 Interfaces If the number exceeds 87 for a 15 min. interval or exceeds 864 for a 1-day interval are bolded red. For DS3XM-6 Interfaces If the number exceeds 25 for a 15 min. interval or exceeds 250 for a 1-day interval are bolded red.

Fig. 11E (Continued)

Net Rule	Heading	Description
DS1 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval OS3 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval EC1 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval DS3XM-6 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval	Severely Errored Frame (AIS)	For DS1 Interfaces If the number exceeds 10 for an15 min. interval or exceeds 10 for a 1-day interval are bolded red. For DS-3 Interfeces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red. For EC-1 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red. For DS3XM-6 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red.
If the number exceeds 1 for a 15 min. interval or exceeds 4 for a 1-day interval	Optical Performance Table Near and Far end Severely Errored Seconds	If the number exceeds 1 for a 15 min. interval or exceeds 4 for a 1-day interval are bolded red.

H — I — J — Continued on sheet 26 of 31 — K

Fig. 11F

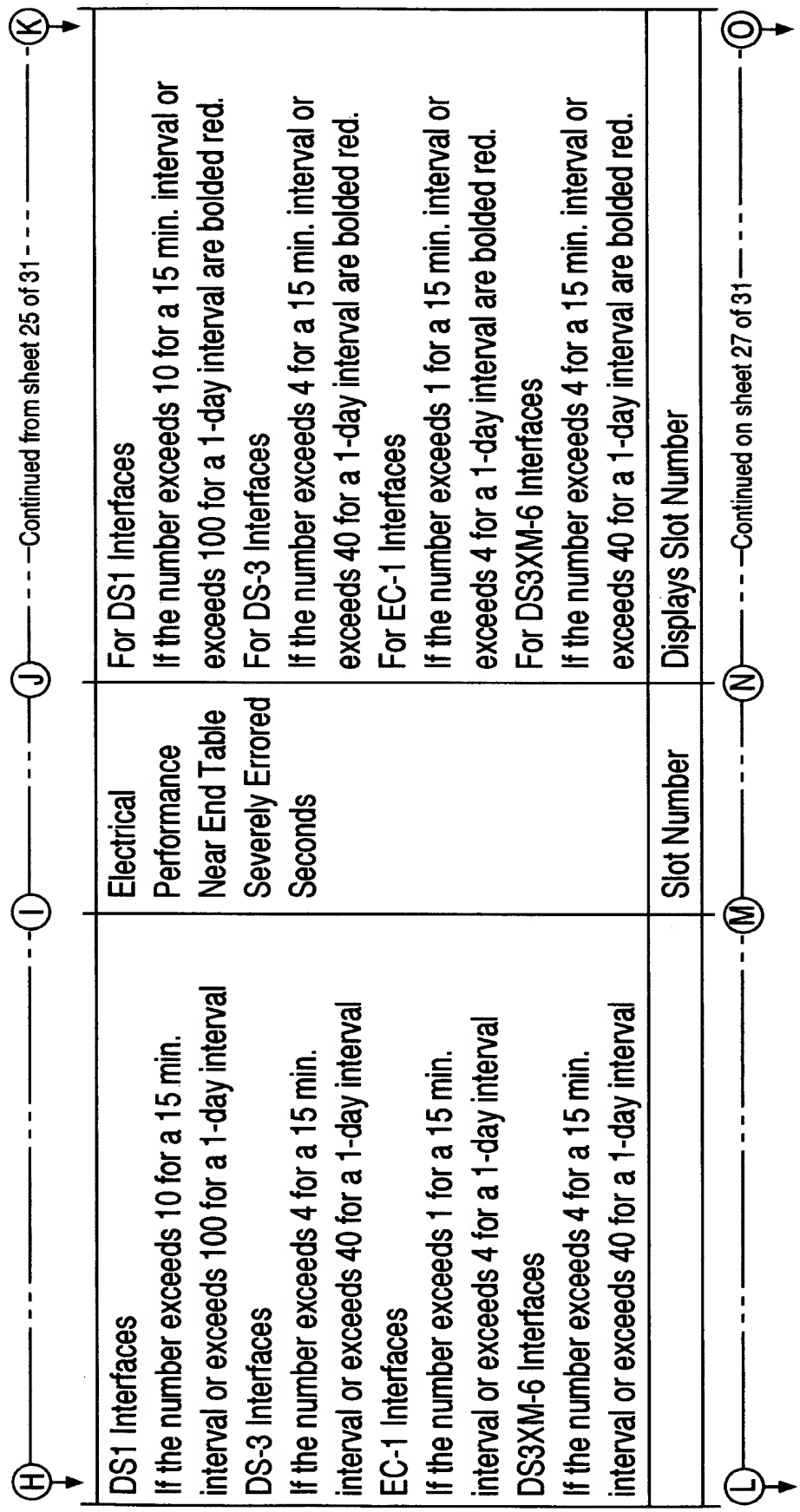


Fig. 11F (Continued)

Continued from sheet 26 of 31

DS1 Interfaces If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval DS-3 Interfaces If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval EC-1 Interfaces If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval DS3XM-6 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval	Electrical Performance Near End Table Unavailable Seconds	For DS1 Interfaces If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red. For DS-3 Interfaces If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red. For EC-1 Interfaces If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red. For DS3XM-6 Interfaces If the number exceeds 10 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red.
If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval	Optical Performance Table Near and Far end Unavailable Seconds	If the number exceeds 3 for a 15 min. interval or exceeds 10 for a 1-day interval are bolded red

Fig. 11F (Continued)

Field Notice Number	Card Type	Hardware Version	Firmware Version	Software Version	Description	Recommendation
12851	E100T	800-06747-05 A0 or prior	N/A	N/A	Incorrect coding in C2 byte of optical backbone facility. All version of the E100T card prior to 800-06747-05 A0 will require a hardware upgrade to support features introduced in version 2.2 CTC (Cisco Transport Controller) and later	Old revision boards will not operate with CTC 2.2. It is important to understand that without the upgraded cards Ethernet traffic will not operate using CTC 2.2 If you need additional technical assistance, please call the Cisco Technical Assistance Center at (877) 323-7368
19	OC12 Cards	800-06758-01 A0 800-06759-01 A0 800-06760-01 A0	N/A	N/A	Bit errors may be seen on an OC-12 card when the incoming line frequency is less than the NE's internal; clock by more than 4ppm. This can happen as a result of synchronization problems in the network, or if the node is operating in free running synchronous node. Bit errors may be seen when synchronization timing references drift off frequency by 4ppm or more, or when networks are configured to free running synchronous mode.	This issue has been corrected in the current release of all OC-12 cards (Part # 800-06758-02, 800-06759-02, 800-06760-02) and all subsequent versions. If you need additional technical assistance, please call the Cisco Technical Assistance Center at (877) 323-7368

P — Q — Continued on sheet 29 of 31 — R — S

FIG. 12

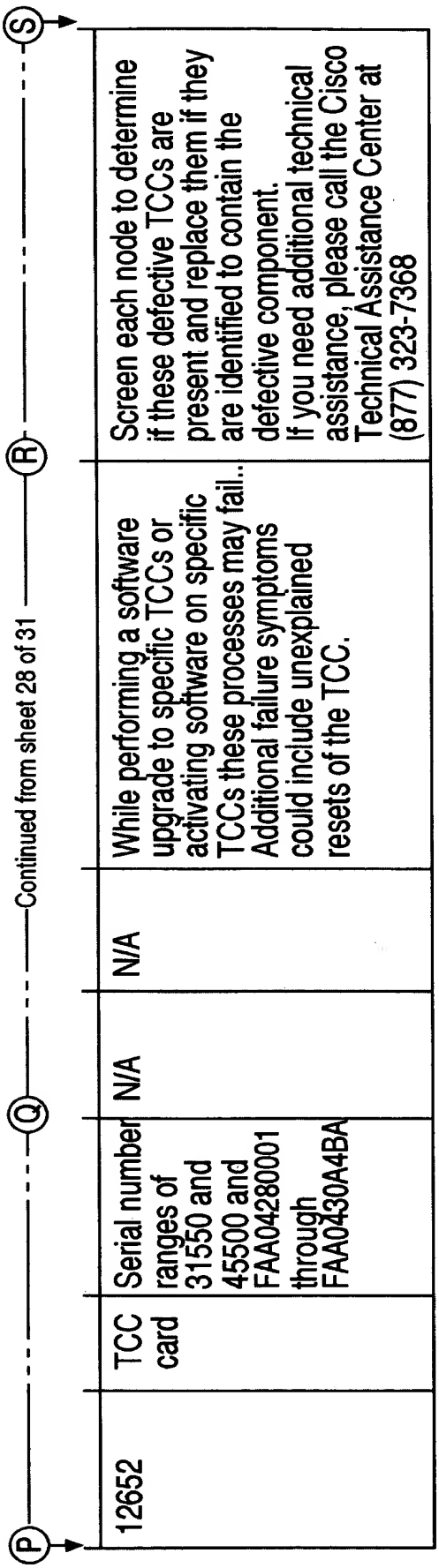
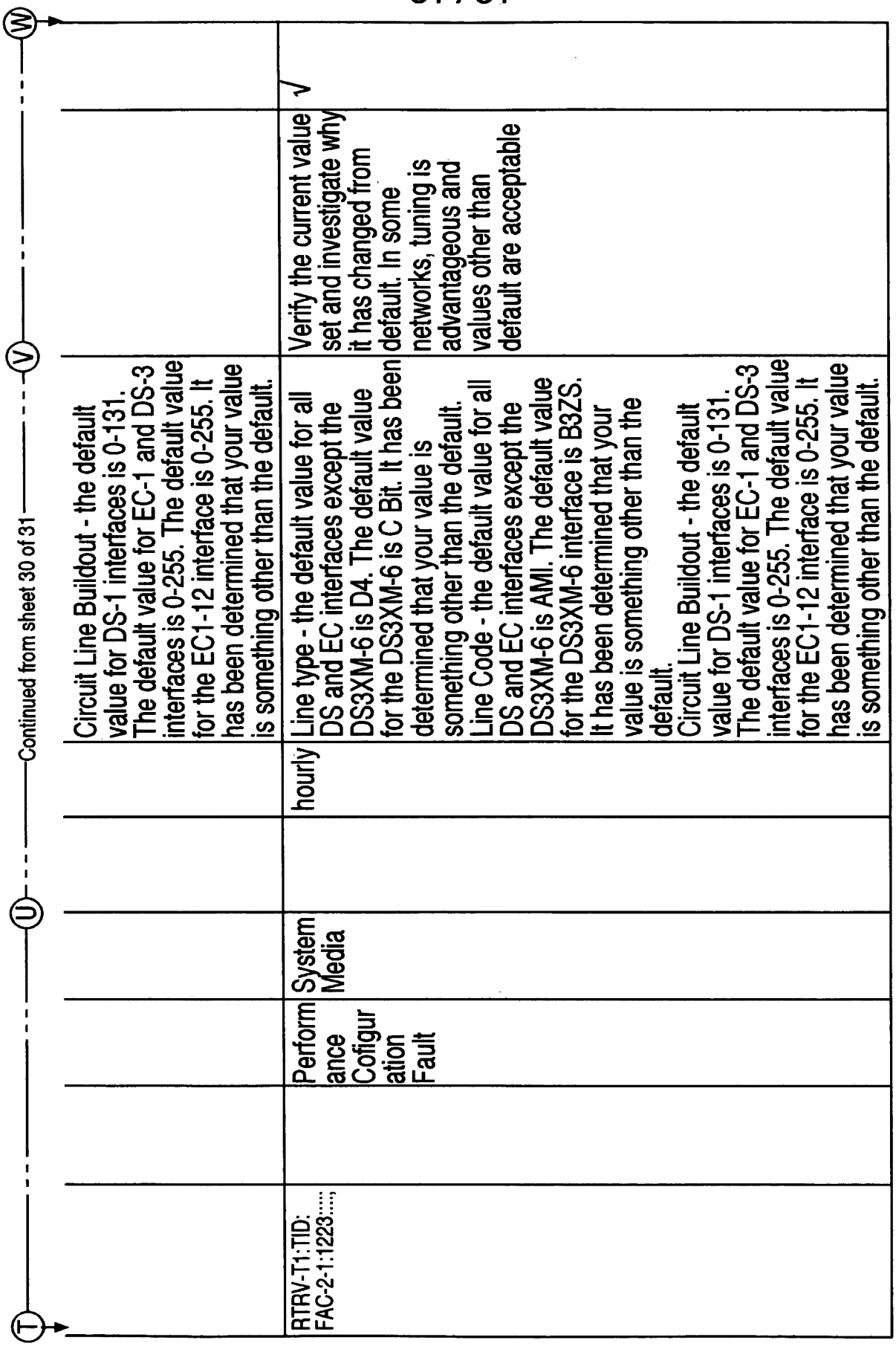


FIG. 12 (Continued)

Net Audit Version 4								Net Advisor
Command	Key Variable (s)	Section	Sub Section	MIB (If applicab (e)	Poll Freq	Net Info	Net Advice	Include ?
RTRV-OC48:: FAC-6-1:236;		Performance Cofigur ation Fault	System Media		hourly	Bit Error Ratio For Signal Fail - the default value is 1E-4. It has been determined that your value is something other than the default. BIT Error Ratio For Signal Degrade - the default value is 1E-7. It has been determined that your value is something other than the default.	Verify the current value set and investigate why it has changed from default. In some networks, turning is advantageous and values other than default are acceptable.	√
RTRV-TC3: CERENT:FAC-1-2:123:::;		Performance Cofigur ation Fault	System Media		hourly	Line type - the default value for all DS and EC interfaces except the DS3XM-6 is D4. The default value for the DS3XM-6 is C Bit. It has been determined that your value is something other than the default. Line Code - the default value for all DS and EC interfaces except the DS3XM-6 is AMI. The default value for the DS3XM-6 interface is B3ZS. It has been determined that your value is something other than the default.	Verify the current value set and investigate why it has changed from default. In some networks, tuning is advantageous and values other than default are acceptable	√

T U Continued on sheet 31 of 31 V W

FIG. 13



RTRV-T1:TID:FAC-2-1:1223:::::;						√
	Performance Cofiguration Fault	System Media	hourly	Circuit Line Buildout - the default value for DS-1 interfaces is 0-131. The default value for EC-1 and DS-3 interfaces is 0-255. The default value for the EC1-12 interface is 0-255. It has been determined that your value is something other than the default.	Line type - the default value for all DS and EC interfaces except the DS3XM-6 is D4. The default value for the DS3XM-6 is C Bit. It has been determined that your value is something other than the default. Line Code - the default value for all DS and EC interfaces except the DS3XM-6 is AMI. The default value for the DS3XM-6 interface is B3ZS. It has been determined that your value is something other than the default. Circuit Line Buildout - the default value for DS-1 interfaces is 0-131. The default value for EC-1 and DS-3 interfaces is 0-255. The default value for the EC1-12 interface is 0-255. It has been determined that your value is something other than the default.	Verify the current value set and investigate why it has changed from default. In some networks, tuning is advantageous and values other than default are acceptable

FIG. 13 (Continued)